

Title (en)

PLASMID FOR PRODUCTION OF ALPHA-AMYLASE IN BACILLUS

Publication

EP 0351717 A3 19900725 (DE)

Application

EP 89112826 A 19890713

Priority

DE 3824827 A 19880721

Abstract (en)

[origin: EP0351717A2] Bacillus plasmid which can be expressed in Bacillus and contains a promoter for the expression of proteins and, linked thereto in a functioning manner, the structural gene of an enzyme, characterised in that it contains a protease promoter linked to an amylase structural gene. <IMAGE>

IPC 1-7

C12N 15/56; **C12N 15/75**

IPC 8 full level

C12N 1/21 (2006.01); **C12N 9/28** (2006.01); **C12N 15/56** (2006.01); **C12N 15/75** (2006.01); **C12R 1/01** (2006.01); **C12R 1/10** (2006.01); **C12R 1/125** (2006.01)

CPC (source: EP KR)

C12N 9/2417 (2013.01 - EP); **C12N 15/00** (2013.01 - KR); **C12N 15/75** (2013.01 - EP)

Citation (search report)

- [X] GB 2171703 A 19860903 - AGENCY IND SCIENCE TECHN
- [X] EP 0227260 A1 19870701 - BIOTEKNIKA INTERNATIONAL [US]
- [YD] EP 0205371 A1 19861217 - CENTRE NAT RECH SCIENT [FR]
- [AD] EP 0214435 A2 19870318 - HENKEL KGAA [DE]
- [Y] ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY, Band 194, Nr. 0, 1987, Seite MBTD118, Washington D.C., USA; ALAN P. SCOMA et al.: "Development of a unique and efficient secretion vector in bacillus-subtilis".
- [YD] GENE, Band 23, 1983, Seiten 267-276, Amsterdam, NL; STEPHEN A. ORTLEPP et al.: "Molecular cloning in Bacillus subtilis of a Bacillus licheniformis gene encoding a thermostable alpha amylase".

Cited by

GB2464248A; GB2464248B; EP2568039A1; EA018814B1; US8541222B2; US8932841B2; WO2009022158A1; WO9102802A1; US8486687B2; US9469858B2; US6180382B1; US6423523B1; US6426211B1; US8021865B2; US8143038B2; US8852906B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0351717 A2 19900124; **EP 0351717 A3 19900725**; DE 3824827 A1 19900201; DK 360789 A 19900122; DK 360789 D0 19890720; FI 893503 A0 19890720; FI 893503 A 19900122; JP H0276587 A 19900315; KR 900001851 A 19900227

DOCDB simple family (application)

EP 89112826 A 19890713; DE 3824827 A 19880721; DK 360789 A 19890720; FI 893503 A 19890720; JP 19036789 A 19890721; KR 890010186 A 19890718